

AMENDMENT TO THE CLAIMS:

Please amend claims as follows:

1-123 (Cancelled).

124. **(Currently amended)** A process for preparing an orthopaedic implant prosthesis bearing having improved mechanical properties and increased wear resistance comprising the steps of:

a) providing an ultrahigh molecular weight polyethylene (UHMWPE) preform from which the bearings are to be fabricated;

b) heating the preform to a temperature ~~above the melting point of the UHMWPE to~~ of about 230°C to about 300°C; and

c) subsequently irradiating the preform.

125. **(Currently amended)** The process of claim 124, wherein the heating step is performed at temperatures of about ~~[[145°C]]~~ 230°C.

126. (Previously presented) The process of claim 124, wherein the preform is irradiated with gamma radiation at a dose greater than 1 Mrad.

127. **(Currently amended)** A process for preparing an orthopaedic implant prosthesis bearing having improved mechanical properties and increased wear resistance comprising the steps of:

a) providing an ultrahigh molecular weight polyethylene (UHMWPE) preform from which the bearings are to be fabricated;

b) irradiating the preform; and

c) heating the preform to a temperature ~~from above the melting point of the UHMWPE of~~ about 230°C to about 300°C.

128. **(Currently amended)** The process of claim 127, wherein the heating step is performed at temperatures of about ~~[[145°C]]~~ 230°C.

129. (Previously presented) The process of claim 127, wherein the preform is irradiated with gamma radiation at a dose of at least 1 Mrad.